

CLAIMS

1. A test kit comprising a penetration layer, and a plurality of coloration pads held in contact with the penetration layer, wherein a sample liquid supplied to the penetration layer is fed to each of the coloration pads through the penetration layer, and

wherein the penetration layer allows liquid penetration mainly thicknesswise of said penetration layer while restricting liquid penetration in a planar direction of the penetration layer.

2. The test kit according to Claim 1, wherein the plurality of coloration pads and the penetration layer are laminated in this order on a carrier.

3. The test kit according to Claim 1, wherein the penetration layer and the plurality of coloration pads are laminated in this order on a water absorbent carrier.

4. The test kit according to Claim 1, wherein the penetration layer comprises a penetration membrane which are formed with a plurality of thicknesswise extending pores.

5. The test kit according to Claim 4, wherein the plurality of pores have a size of 0.1~12 μ m.

6. The test kit according to Claim 4, wherein the penetration membrane has a porosity of 4~20vol%.

5 7. The test kit according to Claim 4, wherein the penetration membrane is formed by track etching.

8. The test kit according to Claim 4, wherein the penetration membrane has a honeycomb structure.

10

9. The test kit according to Claim 1, wherein the plurality of coloration pads are arranged in a matrix.

10. The test kit according to Claim 1, wherein at least
15 two of the plurality of coloration pads differ from each other with respect to coloration components for allowing measurement of a plurality of items.

11. The test kit according to Claim 1, wherein the
20 plurality of coloration pads are formed within a specific region, and the surface area of the specific region is 2.0~15mm×2.0~15mm.

12. The test kit according to Claim 11, wherein the
25 surface area of the specific region accounted for by the respective coloration pads is no more than 2.0 mm².

13. A process for producing a test kit, comprising:

a first step of forming a plurality of coloration pads by coating a carrier with a reagent liquid containing a coloration component using a non-contact dispenser and by thereafter drying the reagent liquid; and

a second step of intimately attaching a penetration membrane so as to cover the plurality of coloration pads,

wherein the penetration membrane used in the second step allows liquid penetration mainly thicknesswise of said penetration membrane while restricting liquid penetration in a planar direction of the penetration membrane.

14. The test kit producing process according to Claim 13, wherein the non-contact dispenser used in the first step is of an inkjet type.

15. The test kit producing process according to Claim 13, wherein the plurality of coloration pads are formed in a matrix arrangement in the first step.

16. The test kit producing process according to Claim 13, wherein, in the first step, at least two of the plurality of coloration pads differ from each other with respect to coloration components.

17. The test kit producing process according to Claim 13, wherein, in the first step, the plurality of coloration pads are formed within a specific region with a surface area of 2.0~15mm×2.0~15mm.

5

18. The test kit producing process according to Claim 17, wherein the surface area of the specific region accounted for by the respective coloration pads is set to no more than 2.0mm².